

09/914501

FIGURE 1

| Medium | Status | CA 15-3 U/mg of protein | erb units/mg of protein | p53 pmol/mg of protein | CD pmol/mg of protein | EGFR fmol/mg of protein | Total Protein mg/ml |
|--------|----------------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|-------------------------------|---------------------------|
| Saliva | Controls (n=15) | 2.27±1.54 | Not detectable | 177.1 ±61.3 | 26.29±17.22 | 1.03 ±0.69 | 1.25±0.82 |
| | Benign (n=8) | 2.22±1.95 | Not detectable | 180.7 ±70.78 | 40.57±13.05 | 0.37 ±0.31 | 1.44±0.92 |
| | Ca in situ (n=12) | 5.26±4.12 [†] | 51.3±43.96 [†] | 134.6 ±63.8 | 34.5±27.95 | 0.92 ±0.8 | 1.71±0.79 |
| Serum | Controls (n=15) | 16.17 ±4.64 | Not detectable | 14.2±7.9 | 67.5 ±35.61 | 8.5 ±8.45 | 24.54±13.86 |
| | Benign (n=8) | 15.25±5.04 | Not detectable | 14.63 ±8.8 | 45.0±20.98 | 3.52 ±1.89 | 27.33±14.23 |
| | Ca in situ (n=12) | 24.68±10.9 ^{††} | 81.68±111.77 ^{††} | 8.9 ±7.7 | 63.17±38.4 | 5.63 ±3.10 | 29.23 ±11.08 |

FIGURE 2

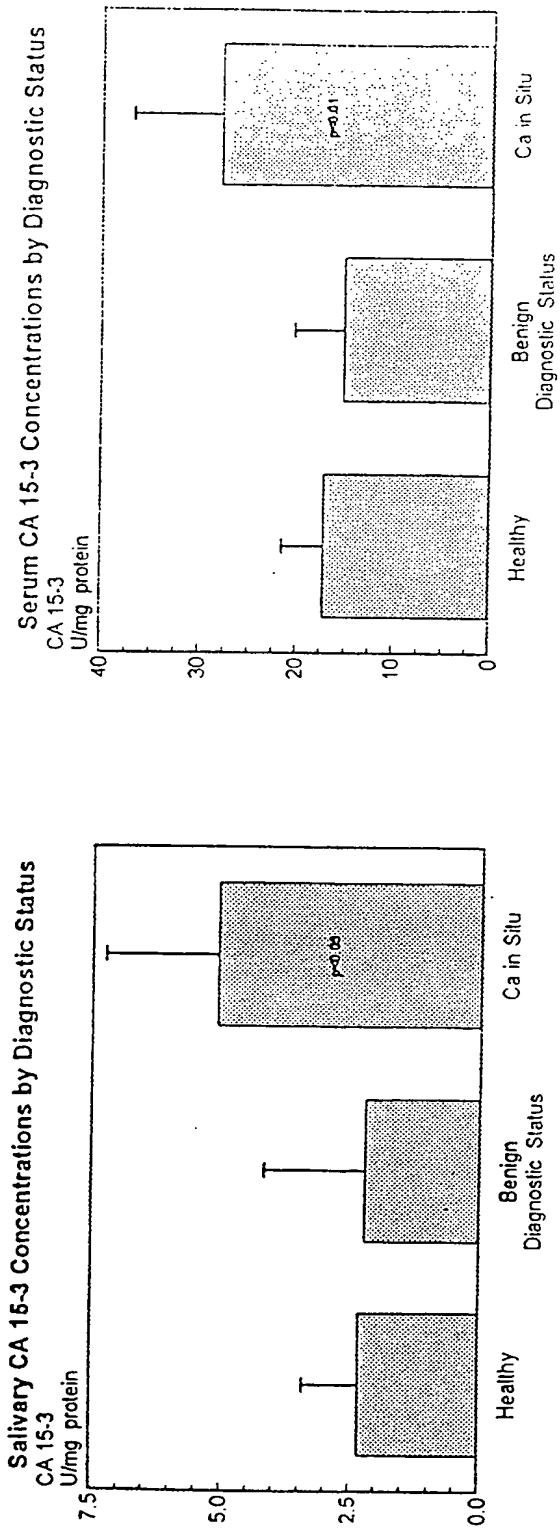


FIGURE 3

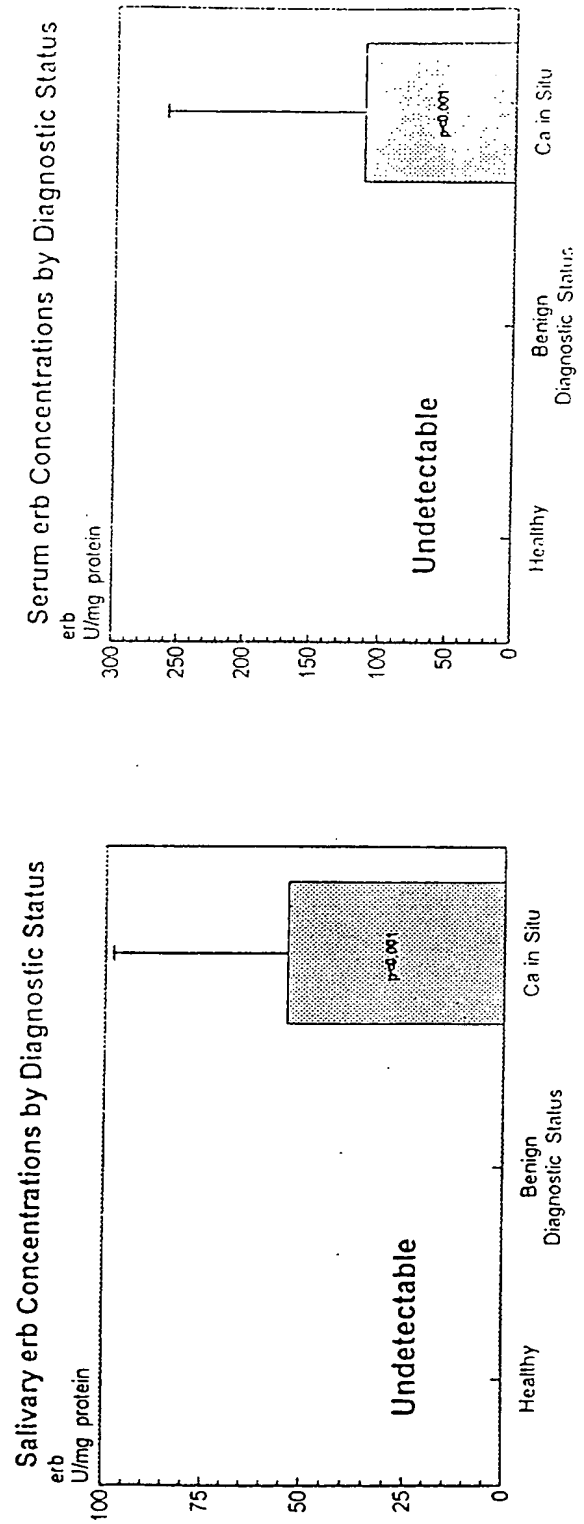


FIGURE 4

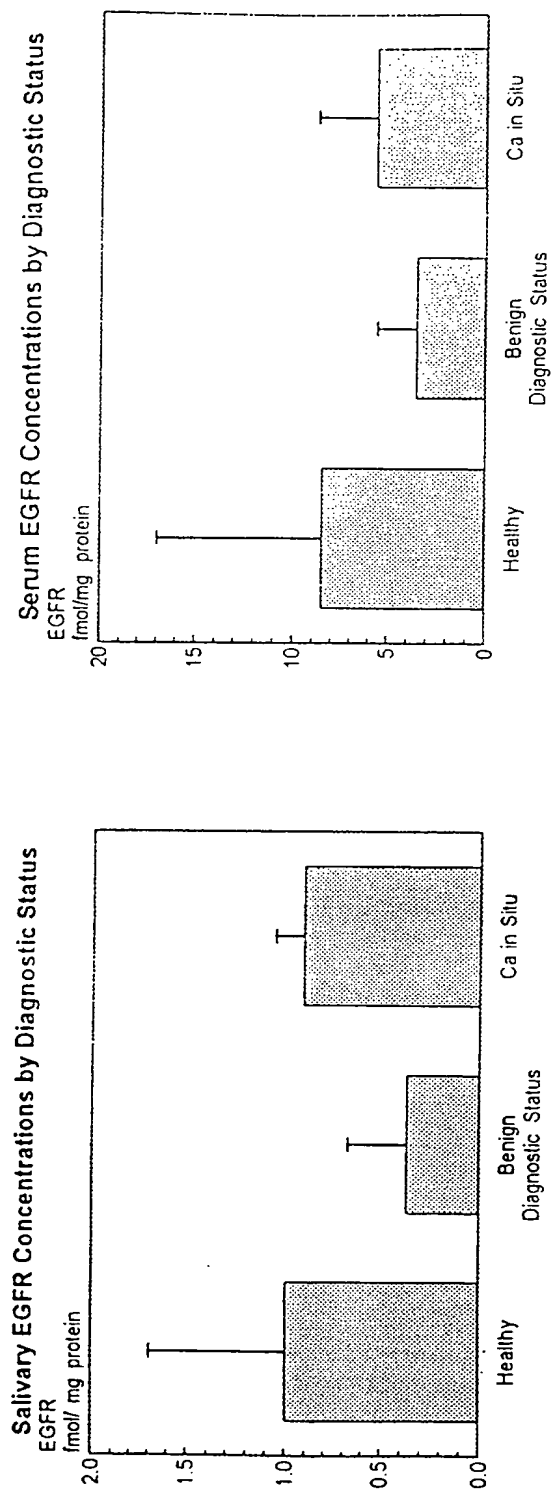


FIGURE 5

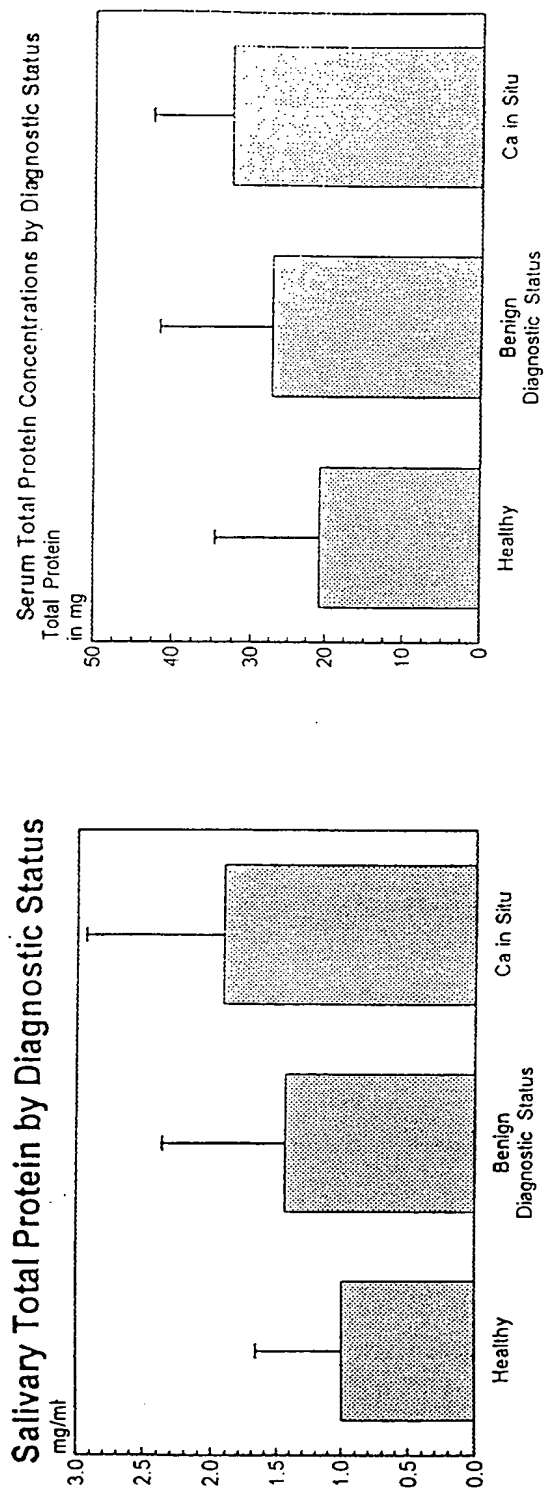


FIGURE 6

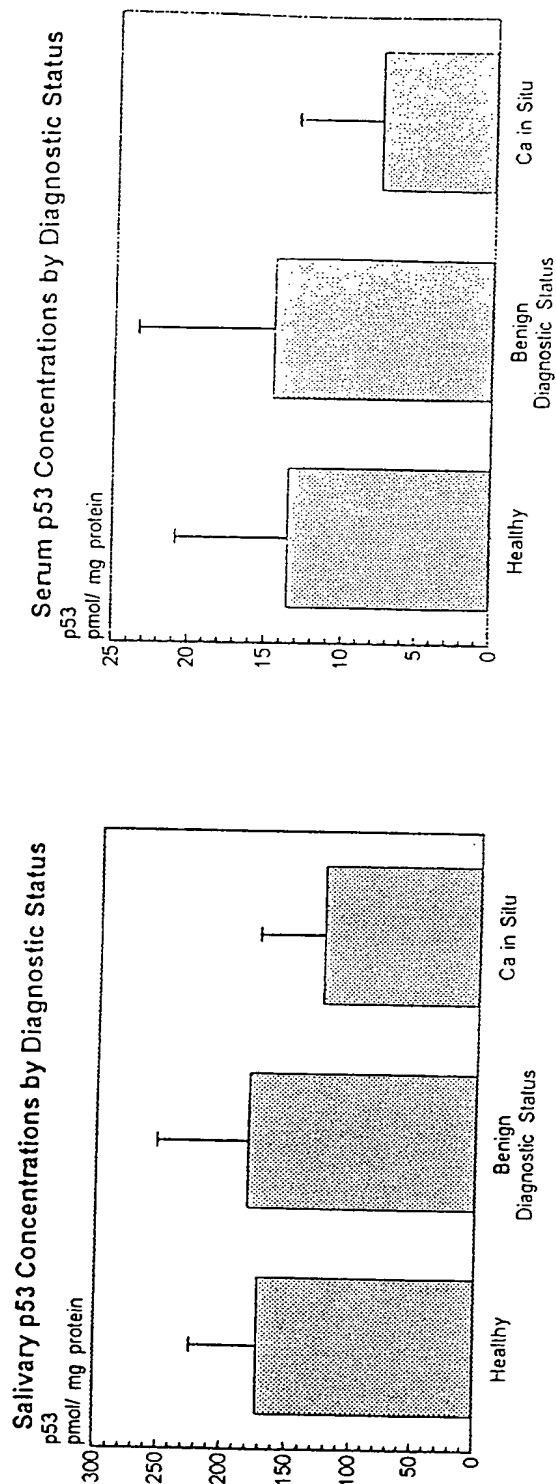


FIGURE 7

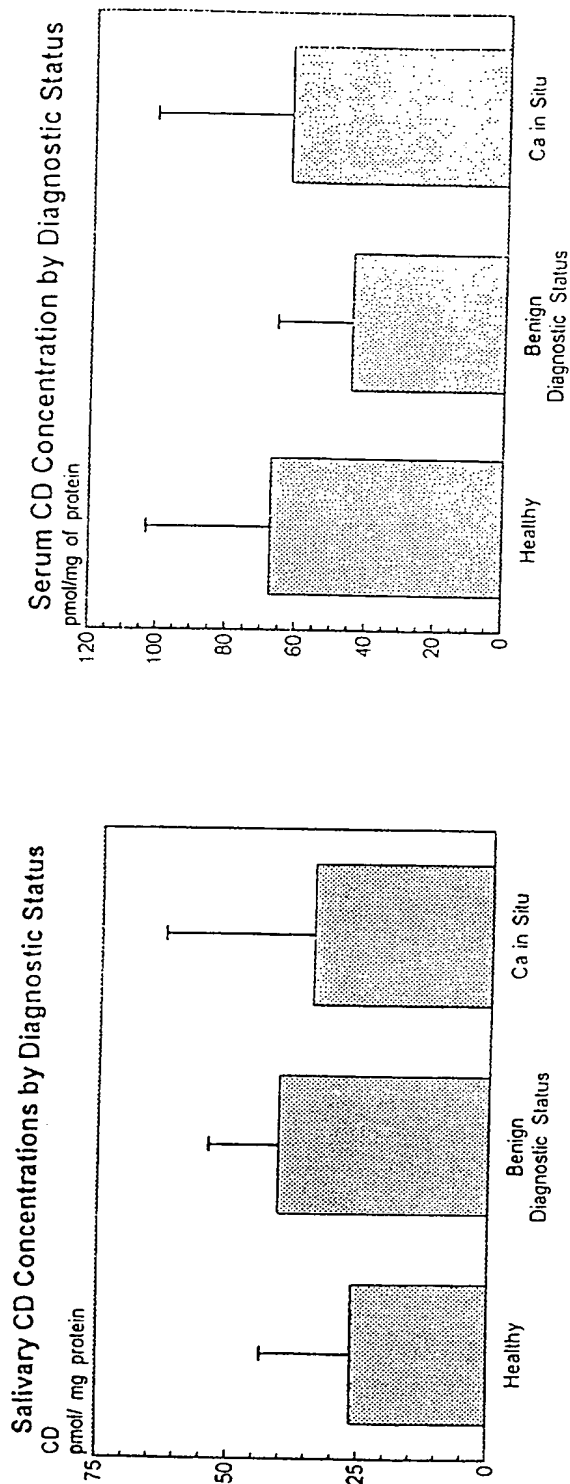


Figure 8

| Mean and Standard Error of the Mean (S.E.M.) Values for c-erbB-2 | | | | | | | | | |
|--|------------------|------|-------------------------|---------------|------|--------------------------|------------------|------|--------------------------|
| Characteristics | Healthy Controls | | | Benign Tumors | | | Malignant Tumors | | |
| | n | age | Mean (S.E.M.) | n | age | Mean (S.E.M.) | n | age | Mean (S.E.M.) |
| Saliva c-erbB-2 | 57 | 39.6 | 94.70 (± 8.39) | 41 | 45.0 | 99.72 (± 10.94) | 30 | 50.8 | 222.22 (± 19.22) |
| Saliva c-erbB-2 (Units/mg protein) | 57 | 39.6 | 71.13 (± 6.07) | 41 | 45.0 | 63.75 (± 7.00) | 30 | 50.8 | 143.58 (± 11.53) |
| Salivary Protein (mg/ml) | 56 | 39.3 | 1.48 (± 0.09) | 41 | 45.0 | 1.58 (± 0.08) | 30 | 50.8 | 1.67 (± 0.10) |
| Salivary CA 15-3 (Units/ml) | 42 | 38.0 | 3.19 (± 0.52) | 33 | 43.9 | 7.23 (± 1.58) | 30 | 50.8 | 10.90 (± 3.44) |
| Salivary Flow Rates (ml/min.) | 56 | 39.6 | 1.90 (± 0.12) | 41 | 44.3 | 1.48 (± 0.12) | 30 | 50.8 | 1.15 (± 0.13) |
| Serum c-erbB-2 | 57 | 39.6 | 1472.15 (± 78.78) | 41 | 44.3 | 1515.63 (± 155.48) | 30 | 50.8 | 3490.67 (± 364.48) |
| Serum c-erbB-2 (Units/mg protein) | 57 | 39.6 | 28.04 (± 0.63) | 41 | 44.3 | 33.05 (± 3.44) | 30 | 50.8 | 85.97 (± 9.31) |
| Serum CA 15-3 (Units/ml) | 42 | 38.0 | 10.88 (± 0.74) | 33 | 43.9 | 15.91 (± 0.88) | 30 | 50.8 | 41.49 (± 10.65) |
| Serum Protein (mg/ml) | 56 | 39.3 | 53.04 (± 1.41) | 44 | 44.3 | 42.90 (± 1.16) | 30 | 50.8 | 42.15 (± 1.58) |

TABLE 1034660

Figure 9

| Frequency Distribution for Questionnaire Data | | | | |
|---|----------|---------------|------------------|----------|
| Characteristic | Controls | Benign Tumors | Malignant Tumors | p-value |
| n | 57 | 44 | 30 | -- |
| Tobacco Usage | -- | -- | -- | 2.40E-06 |
| Yes | 3 | 15 | 16 | -- |
| No | 54 | 29 | 14 | -- |
| Race | -- | -- | -- | 0.00063 |
| Caucasian | 38 | 13 | 12 | -- |
| African - American | 19 | 31 | 18 | -- |
| Systemic Diseases | -- | -- | -- | 0.334 |
| Yes | 16 | 17 | 10 | -- |
| No | 41 | 23 | 20 | -- |
| Prescribed Medications | -- | -- | -- | 0.449 |
| Yes | 25 | 23 | 16 | -- |
| No | 32 | 18 | 14 | -- |
| Menopausal Status | -- | -- | -- | 0.00016 |
| Premenopausal | 40 | 19 | 9 | -- |
| Perimenopausal | 0 | 10 | 17 | -- |
| Postmenopausal | 17 | 15 | 4 | -- |

Figure 10

| Mean and Standard Error of the Mean (S.E.M.) Values Values for c-erbB-2 Among Varying Malignant Tumor Stages | | | | | |
|--|----|---------------------------------------|---|---|---|
| Characteristic | | Saliva | | Serum | |
| | n | c-erbB-2 Units/ml Mean (S.E.M.) | c-erbB-2 Units/mg protein Mean (S.E.M.) | c-erbB-2 Units/mg protein Mean (S.E.M.) | c-erbB-2 Units/mg protein Mean (S.E.M.) |
| T1 | 7 | 211.15 (± 25.91) | 133.75 (± 10.27) | 3428.13 (± 564.29) | 95.57 (± 16.83) |
| >T1 | 16 | 190.50 (± 19.36) | 137.01 (± 17.85) | 3680.15 (± 605.42) | 89.32 (± 14.60) |
| Mean and Standard Error of the Mean (S.E.M.) Values Values for c-erbB-2 Among Node Positive and Node Negative Cancer Patients | | | | | |
| | n | c-erbB-2 Units/ml Mean (S.E.M.) | c-erbB-2 Units/mg protein Mean (S.E.M.) | c-erbB-2 Units/ml Mean (S.E.M.) | c-erbB-2 Units/mg protein Mean (S.E.M.) |
| Node Negative | 16 | 192.70 (± 21.02) | 119.52 (± 12.74) | 2296.36 (± 308.42) | 87.44 (± 8.83) |
| Node Positive | 7 | 227.25 (± 14.36) | 192.42 (± 29.19) | 5308.55 (± 2066.35) | 126.63 (± 49.54) |

Figure 11

| Cutoff Values, Sensitivity, Specificity, and Percent Area Under Curve for Salivary and Serum c-erbB-2 and CA 15-3 Concentrations | | | | | |
|---|--------------|-------------|-------------|--------------------------|--|
| Characteristics | Cutoff Value | Sensitivity | Specificity | Percent Area Under Curve | |
| Saliva c-erbB-2 | 110 | 0.87 | 0.65 | 75.7 | |
| Saliva c-erbB-2 (Units/mg protein) | 100 | 0.77 | 0.77 | 76.7 | |
| Salivary CA 15-3 | 4 | 0.62 | 0.79 | 70.5 | |
| Serum c-erbB-2 | 2000 | 0.94 | 0.60 | 76.7 | |
| Serum c-erbB-2 (Units/mg protein) | 50 | 0.84 | 0.68 | 76.0 | |
| Serum CA 15-3 | 20 | 0.75 | 0.44 | 62.2 | |

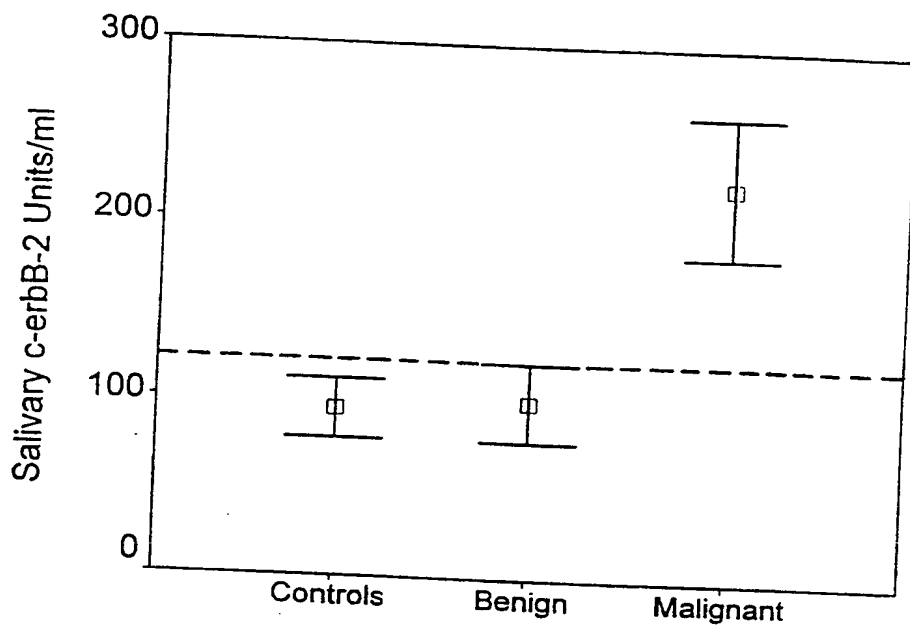


Figure 12a

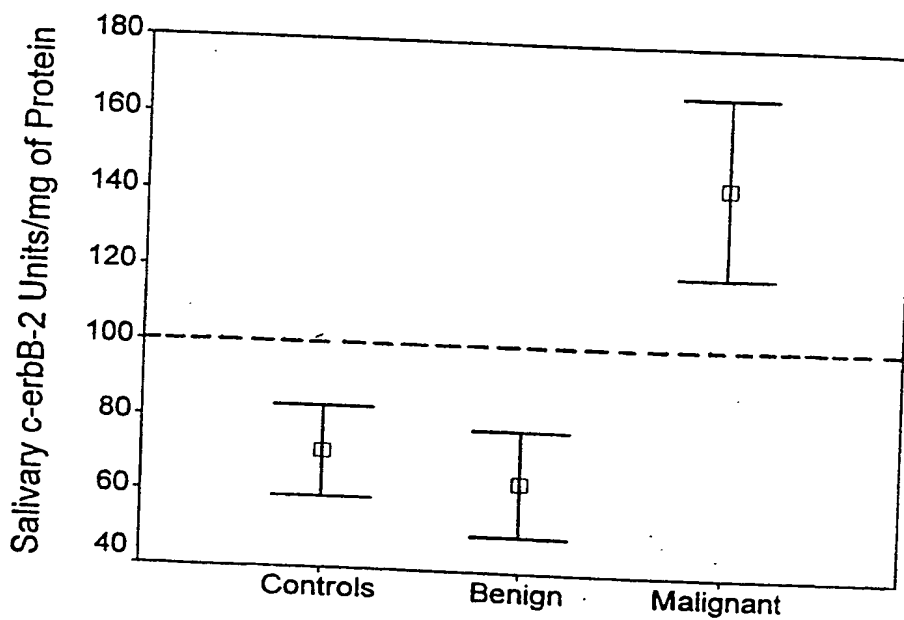


Figure 12b

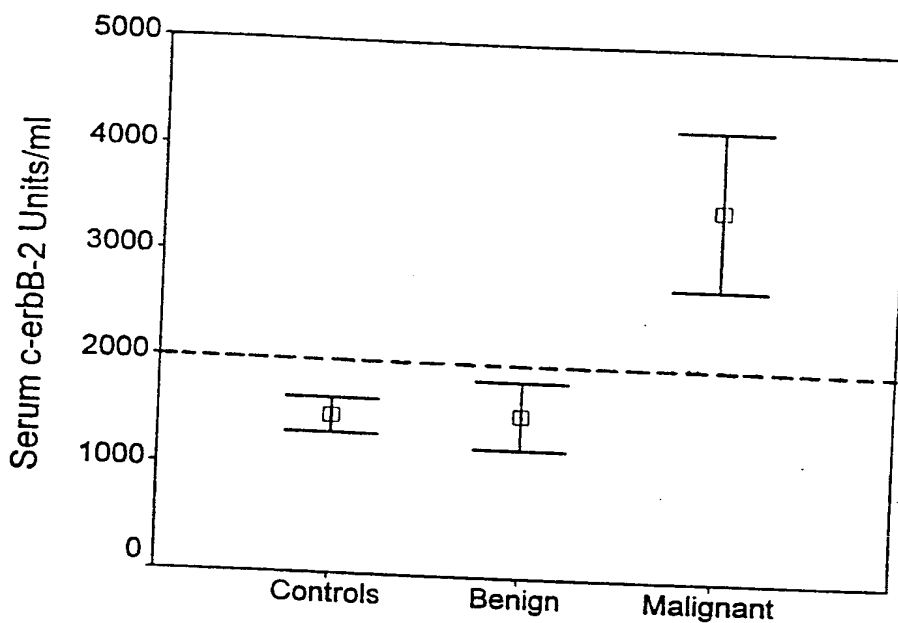


Figure 13a

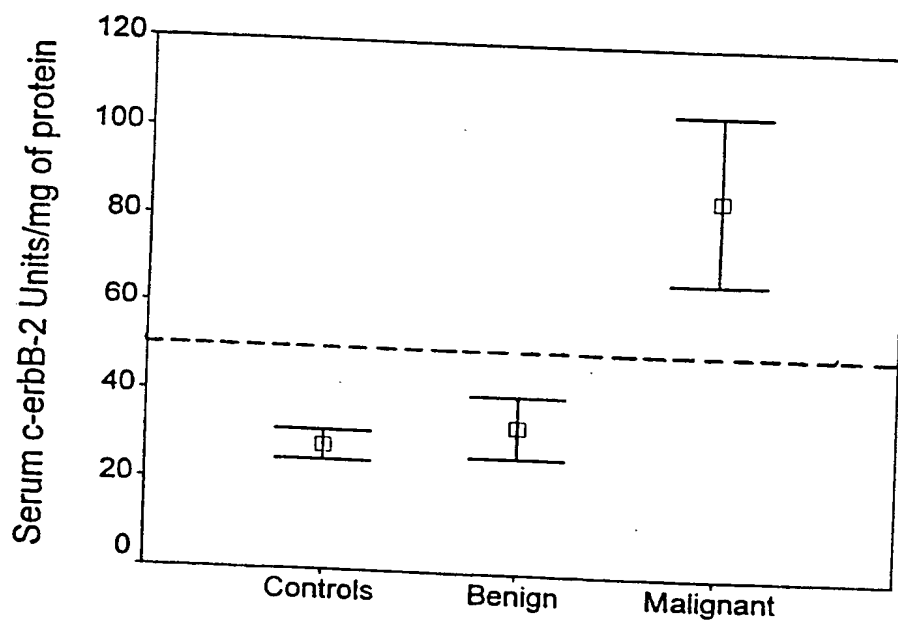


Figure 13b

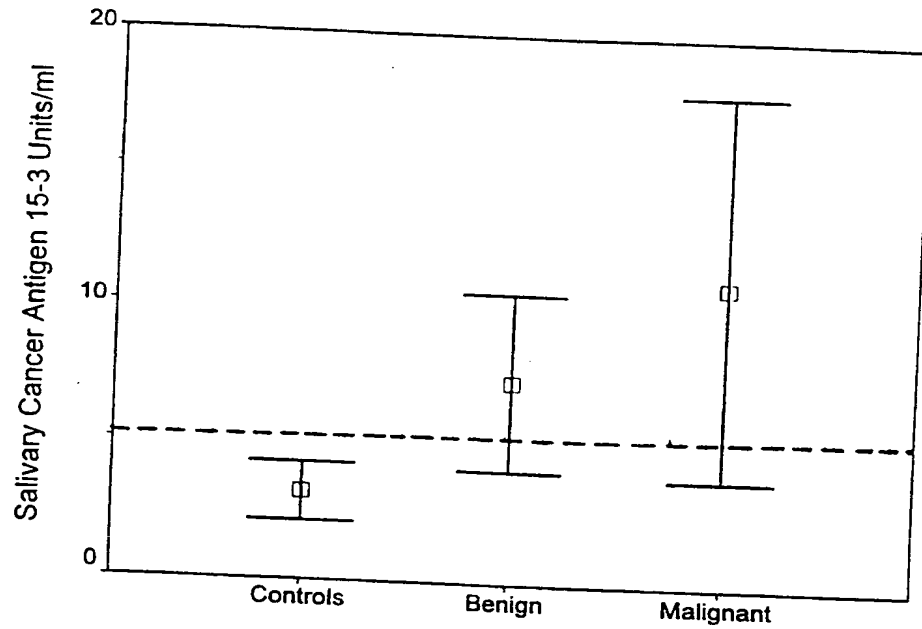


Figure 14a

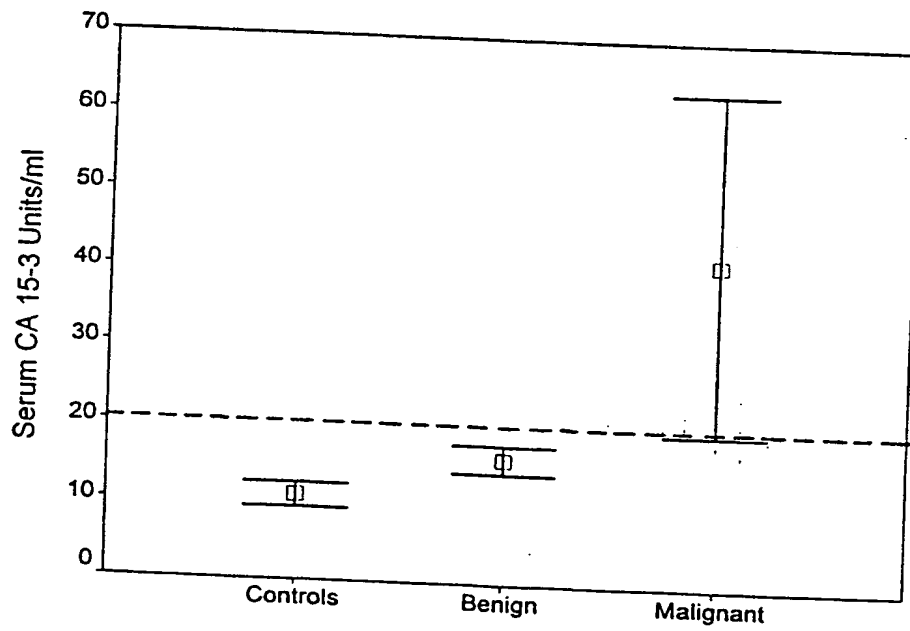


Figure 14b

FIG. 15

Figure 15

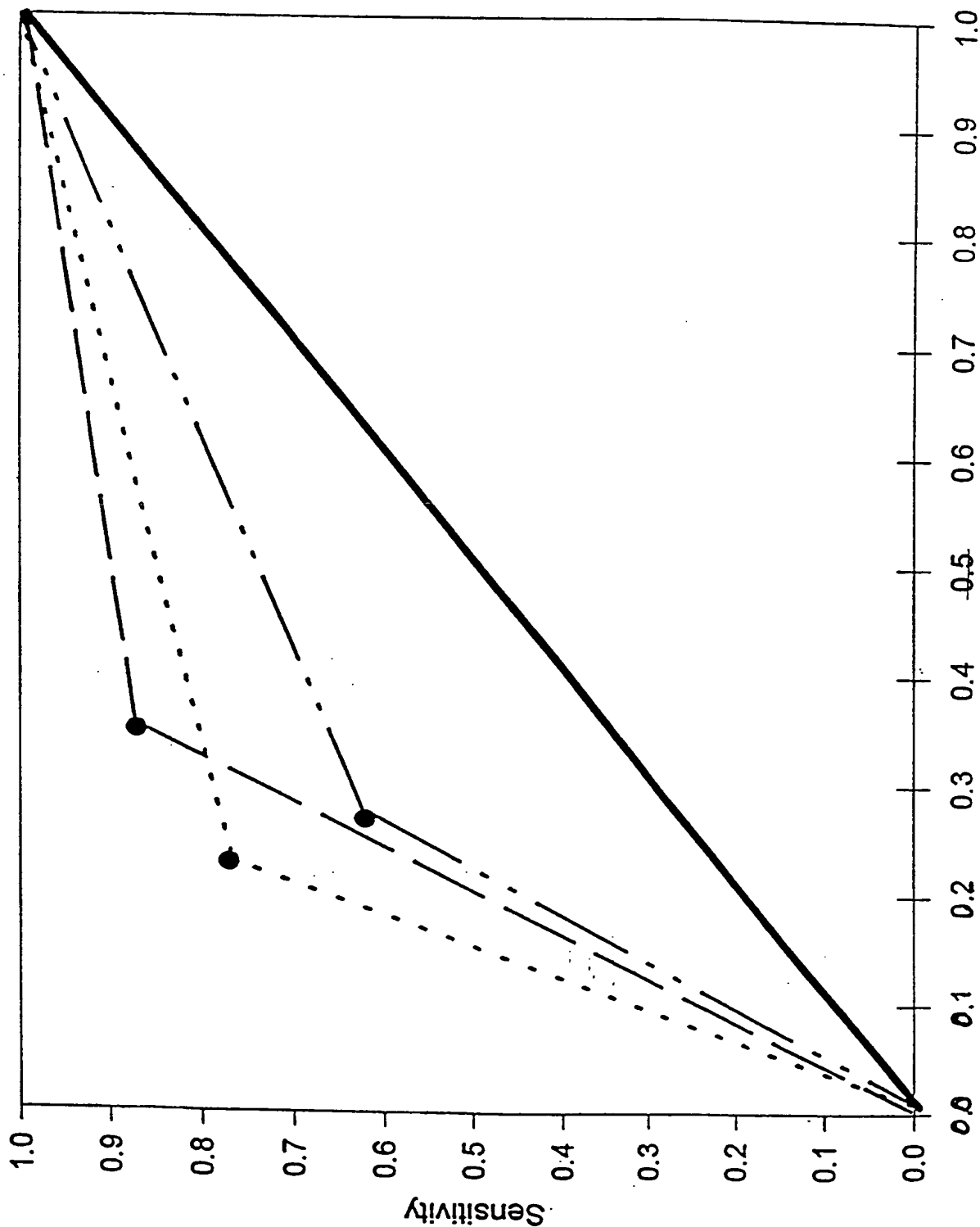


Figure 16

